

## Quality Engineering Test Report

Model : A-301-600-F3    600W    DC-AC    Square Wave Power Inverter  
 I/P: 12VDC  
 O/P: 230VAC / 50Hz

### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	AC VOLTAGE	230VAC(Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	226.2VAC	P
2	AC VOLTAGE REGULATION	-10% ~ +10% (Typ)	I/P:11VDC~15VDC O/P:FULL~MIN. LOAD Ta:25°C	212~240.2VAC	P
3	AC WAVEFORM	SQUARE WAVE	I/P:12VDC O/P:FULL LOAD Ta:25°C	SQUARE WAVE	P
4	AC FREQUENCY	50Hz	I/P:12VDC O/P:MIN LOAD Ta:25°C	50.00Hz	P
5	CONTINUOUS POWER	600W (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	580W	P
6	SURGE POWER	1500W (Max)	I/P:12VDC O/P:TESTING Ta:25°C	1500W	P

### INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	11VDC ~ 15VDC (Typ)	I/P: TESTING O/P:MIN LOAD Ta:25°C	10.4~15.2VDC	P
2	EFFICIENCY	85% (TYP)	I/P:12VDC O/P:FULL LOAD Ta:25°C	85.8%	P
3	NO LOAD CURRENT DRAW	0.5A (Max)	I/P: 12VDC O/P:NO LOAD Ta:25°C	0.482A	P

### PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	BAT. LOW ALARM	10~11VDC	I/P:TESTING O/P:50% LOAD Ta:25°C	11.0VDC	P
2	BAT. LOW SHUTDOWN	9.5~10.5VDC	I/P:TESTING O/P:50% LOAD Ta:25°C	9.9VDC SHUT DOWN RESET RE-POWER ON	P

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3	INPUT POLARITY REVERSE	FUSE OPEN	I/P:TESTING O/P:NO LOAD Ta:25°C	FUSE OPEN OK RESET REPLACEMENT FUSE	P
4	OVER LOAD PROTECTION	YES	I/P:12VDC O/P:TESTING Ta:25°C	781W	P
5	OVER VOLTAGE PROTECTION	15~17VDC(Max)	I/P:TESTING O/P:NO LOAD Ta:25°C	15.28VDC SHUT DOWN RESET RE-POWER ON	P
6	OUTPUT SHORT PROTECTION	YES	I/P:12VDC O/P:SHORT Ta:25°C	TEST OK SHUT DOWN RESET RE-POWER ON	P

**ENVIRONMENT TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 1.5HRS I/P:12VDC O/P:100% LOAD Ta=28°C			P

**OTHER**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	SUPPOSE C1 IS THE MOST CRITICAL COMPONENT I/P: 12VDC O/P:FULL LOAD Ta=28°C LIFE TIME= 30696HRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2003.8.15	A-301-600-F3	PASS	T.K.CHENG	MAX LIN